

DERWENT-ACC-NO: 1974-60166V

DERWENT-WEEK: 197434

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TITLE: Gas distributor for exothermal high press synthesis -  
with catalyst layer between two concentric gas-permeable  
annular metal sheets

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PRIORITY-DATA: 1973DE-2306516 (February 9, 1973)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES
MAIN-IPC			
DE 2306516 A	August 14, 1974	N/A	000 N/A

INT-CL (IPC): B01J009/04, C01C001/04

ABSTRACTED-PUB-NO: DE 2306516A

BASIC-ABSTRACT:

Uniform gas distributor is for a radical-throughflow catalyst plant in reactors for exothermal high-pressure syntheses, e.g. NH<sub>3</sub>, and consists of 2 concentric, gas-permeable annular metal sheets, with closing floor and cover, and catalyst layer(s) between them. The space within the inner sheet has a gas inlet opening and is gastight at the other sheet and the furnace insert jacket enclosing the catalyst side to the gas inlet. The distributing space within opposite side to the gas inlet. The distributing space within the inner sheet, which has uniform openings, contains a conical or frustroconical displacement body mounted with its base surface on the gastight closure of the inner sheet space and extending over min. 90% of the catalyst bed height. The body's base surface is min. 65% max 85% the cross sectional surface of the space within the inner sheet, and the cross sectional surface at the upper end of the body is max. 15% of it. Additional bodies, locally limited, and bead-like or annular, are attached to the body, to narrow the cross section.

TITLE-TERMS: GAS DISTRIBUTE EXOTHERMIC HIGH PRESS SYNTHESIS  
CATALYST LAYER TWO  
CONCENTRIC GAS PERMEABLE ANNULAR METAL SHEET

DERWENT-CLASS: E35 J04

CPI-CODES: E32-A; J04-A01;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

C800 C730 C500 N060 N000 M720 M411 M902